

# USS NASHVILLE (LPD-13) SEMAT II HULL AND SUPPORTING STRUCTURE SURVEY

7/22/02 TO 8/2/02



**SUPERVISOR OF SHIPBUILDING  
CONVERSION AND REPAIR  
PORTSMOUTH VIRGINIA**





4646 WITCHDUCK ROAD  
VIRGINIA BEACH, VIRGINIA. 23455-6215  
PHONE: 757-490-5000  
FAX: 757-490-5027

1 AUGUST, 2002  
Serial # 1697 BL -086

Q.E.D. Systems, Inc. was tasked by the Supervisor of Shipbuilding Conversion and Repair, USN (SPORT) Portsmouth, VA to conduct an Ultrasonic Thickness (U/T) Survey of specific locations on board USS NASHVILLE (LPD-13) during the period of 22 July– 2 August 2002.

The survey was conducted by:

Francis J. (Joe) LaRock Certified Level II, 21 December 2001

Candace Short Certified Level I, 11 January 2002

The instruments used were Krautkramer Branson,

Model DMS-2TC. Serial Number: 00N3V8  
Calibration Date: 22 February 2002  
Probes Used: TC 560  
KBA 560  
FH 2 E  
KBA 525

I have reviewed the results of the survey and approved of the findings. The discrepancies have been recorded on MAF's and are included in this report.

A handwritten signature in cursive script, appearing to read "Frank", is written above the printed name.

Francis J. LaRock  
Certified Level II

# **USS NASHVILLE (LPD-13)**

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**USS NASHVILLE (LPD-13)**  
**SEMAT II**  
**SHELL AND SUPPORTING STRUCTURE SURVEY, INTERIOR AREAS.**

A SEMAT II UNDERWATER HULL AND SUPPORTING STRUCTURE SURVEY OF INTERIOR AREAS WAS CONDUCTED ON BOARD **USS NASHVILLE (LPD-13)** FROM 07/22/02 TO 08/02/02 AT NAVAL STATION, NORFOLK VIRGINIA.

THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH HULL STRUCTURE MRC 1102 USING A DELMHORST BD 2100 MOISTURE METER AND KRAUTKRAMER BRANSON ULTRASONIC TEST INSTRUMENT:

MODEL:

DM2TC SERIAL NO.00NV8 CALIBRATION DUE DATE 02/22/03

THE PROBES USED WERE KRAUTKRAMER BRANSON MODELS:

TC/560

FH2E

KBA 525

KBA 560

THE MOST CRITICAL AREAS NOTED WERE THE STERN GATE HYDRAULIC OPERATOR EMERGENCY RIG – CONN SPACES (4-268-1-Q & 4-268-2-Q), THE THINNING TANK TOP IN A/C MACHINERY ROOM NO.1 (4-160-3-E). THE A/C MACHINERY ROOM AND THE STERN GATE EQUIPMENT SPACES ARE NOT SHELL RELATED, BUT ARE CRITICAL AREAS OF CORROSION DUE TO THE NATURE OF THE EQUIPMENT AND THE ENVIRONMENT.

THE FINAL SECTION CONTAINS A (LPD-4) CLASS STRUCTURAL MATRIX. THESE ARE SPACES LOCATED AT THE WATER LINE AND BELOW AND NOT BOUNDED BY TANKS.

**USS NASHVILLE (LPD-13)  
UNSATISFACTORY AREAS**

LOCATION	AREA	RESULTS
<b>(4-268-1-Q)</b> STERN GATE HYDRAULIC OPERATOR EMERGENCY RIG-CONN SPACE <b>JSN A381</b>	STARBOARD SHELL, BETWEEN BHDS (268-274) DECK LEVEL	APPROX 200SQF OF CORROSION AND PAINT FAILURE
<b>(4-268-1-Q)</b> STERN GATE HYDRAULIC OPERATOR EMERGENCY RIG-CONN SPACE <b>JSN A384</b>	STARBOARD SIDE, BASIN WALL BETWEEN BHDS (268- 274) AND FWD BHD (268)	HOLED STRINGER 40 SQF OF BASIN WALL BELOW THE 25% WASTAGE CRITERIA
<b>(4-268-2-Q)</b> STERN GATE HYDRAULIC OPERATOR EMERGENCY RIG-CONN SPACE <b>JSN A367</b>	PORT BASIN WALL BETWEEN BHDS (268-274	HOLED STRINGER, APPROX 40 SQF OF BASIN WALL BELOW THE 25% WASTAGE CRITERIA
<b>(4-268-2-Q)</b> STERN GATE HYDRAULIC OPERATOR EMERGENCY RIG-CONN SPACE. <b>JSN A368</b>	PORT SHELL BETWEEN BHDS (268-274), FWD BHD 268 AND TRANSOM	APPROX 200SQF OF CORROSION AND PAINT FAILURE
<b>(8-44-1-E)</b> FORWARD PUMP ROOM <b>JSN A383</b>	ENTIRE SPACE	APPROX 500SQF OF CORROSION AND PAINT FAILURE
<b>(8-216-1-E)</b> GAS SYSTEMS SALT WATER PUMP ROOM <b>JSN A370</b>	STBD SHELL AND STRINGERS BETWEEN BHDS(216-226)	APPROX. 100 SQF OF MILD CORROSION.
<b>(4-160-3-E)</b> A/C MACHINERY ROOM 1 <b>JSN A369</b>	STBD SIDE AT BHD (160) TANK TOP BELOW BOTTLE RACK.	TANK TOP THINNED BELOW THE 25% WASTAGE CRITERIA
<b>(4-52-1-E)</b> EMERGENCY DIESEL GENERATOR ROOM NO.1 <b>JSN A366</b>	DECK, SHELL AND BHD (68) AFT OF ELECTRICAL PANELS	APPROX. 50 SQFOF CORROSION.

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-268-2-Q	WORK CENTER ER02	JSN A367
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED	.6
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL  <b>1</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PRIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY  <b>4</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE  <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. <b>NORMAL WEAR AND TEAR</b> 8. NOT APPLICABLE  <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE  <b>6</b>	
MAN HRS EXPENDED <b>4</b>	MAN HRS REMAINING <b>300</b>	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
<b>SAFETY HAZARD:</b> 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE <b>4</b>	
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: STERN GATE HYD OPERATOR EMERGENCY RIG-</b>					
<b>CONN SPACE (4-268-2-Q), BASIN WALL IS THINNING ALONG DECK-FROM FWD BLKD TO TRANSOM. THINNING IS ALSO OCCURRING</b>					
<b>AT THE TRANSOM-FROM THE DECK TO THE OVHD AND ABOVE THE UPPER STRINGER. FWD END OF UPPER STRINGER IS HOLED.</b>					
<b>REFER TO DRAWING FOR UT READINGS.</b>					
<b>RECOMMENDED REPAIRS: RECOMMEND REPAIR ACTIVITY CUT OUT AND REPLACE APPROXIMATELY 40SQF OF BASIN WALL,</b>					
<b>USING .375 OS. RECOMMEND REPLACING BOTH 6X4 T- BEAMS, APPROX 16LF. PRIME AND PAINT.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK (757) 396-4001</b>					
<b>CSMP SUMMARY</b> BASIN WALL IS THINNING/ STRINGER HOLED				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>		RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>		PHONE
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN
					TSP

USS NASHVILLE (LPD-13)  
STERN GATE HYD OPERATOR EMERGENCY RIG-CONN SPACE (4-268-2-Q)



PORT SIDE, DETERIORATED 2<sup>ND</sup> STRINGER FROM THE DECK, OUTBOARD SIDE OF WELL DECK. JSN A367



CORROSION AT DECK, OUTBOARD SIDE OF PORT WELL DECK. SEVERAL LOW U/T READINGS WERE REVEALED IN THIS AREA. REFER TO DRAWING. JSN A367

# MATERIAL ASSESSMENT FORM

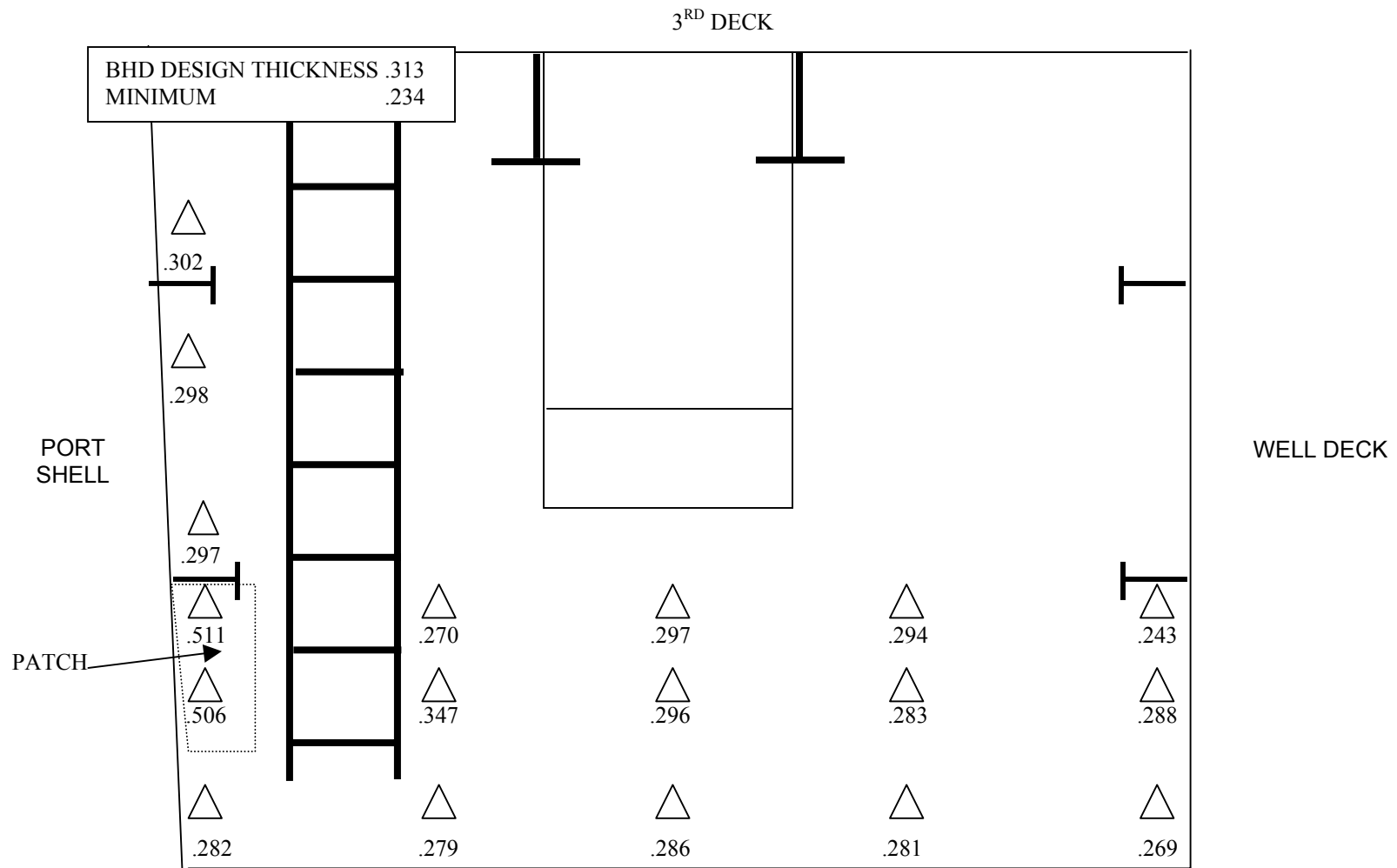
ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-268-2-Q	WORK CENTER ER02	JSN A 368
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.7
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL  <b>4</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY  <b>4</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE  <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE  <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE  <b>6</b>	
MAN HRS EXPENDED 2	MAN HRS REMAINING 160	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE  <b>4</b>
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: PORT STERN GATE HYDRAULIC OPERATOR</b>					
EMERGENCY RIG -CONN SPACE (4-268-2-Q) HAS HEAVY CORROSION ON FWD BLKD, SHELL AND TRANSOM. APPROX. 200 SF.					
<b>RECOMMENDED REPAIRS: SHIPS FORCE CLEAN TO BARE METAL, PRIME AND PAINT. APPROX. 200 SF.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b>				<b>TEST#</b>	
CORRODED BLKDS (4-268-2-Q)				MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b>				<b>STEP#</b>	
H1				1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.		NOMENCLATURE		QTY	NSN
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>		RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>		PHONE
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)		TD	TL	LOGISTICIAN	TSP



**USS NASHVILLE (LPD-13)**  
**STERN GATE HYD OPERATOR EMERGENCY\_RIG-CONN SPACE (4-268-2-Q)**



HEAVY PAINT SEPARATION AND RUST ON FORWARD BULKHEAD. U/T  
READINGS SHOW NO SIGNIFICANT METAL LOSS.REFER TO DRAWING.  
JSN A368



USS NASHVILLE (LPD-13) STERN GATE HYD OPERATOR  
EMERGENCY RIG-CONN SPACE (4-268-2-Q)

J. LAROCK / C. SHORT  
QED SYSTEMS INC.

# BASIN WALL (PORT SIDE)

FRAME (268)

FRAME (274)

8x6" hole in web,  
at Fr. 268

△ .373	△ .366	△ .370	▲ .286	△ .378	▲ .250	▲ .259
4 X 6 T-BEAM						
	F .102	F .132	F .103	F .098	F .167	F .165
△ .371	△ .377	△ .367	△ .314	△ .375	△ .335	▲ .194
△ .375	△ .378	△ .377	△ .376	△ .380	△ .364	▲ .164
△ .344	△ .319	△ .368	△ .349	△ .367	△ .364	△ .312
4 X 6 T-BEAM						
F .191		F .197	F .188		F .174	F .184
W .186		W .236	W .237		W .210	W .211
△ .324	△ .378	△ .322	△ .320	△ .352	▲ .227	▲ .197
△ .374	△ .371	△ .377	△ .337	△ .377	△ .375	△ .325
▲ .261	▲ .227	▲ .217	△ .310	▲ .249	△ .290	△ .292

Design Thickness .375  
Minimum .287  
Flange  
Web

USS NASHVILLE (LPD-13)  
PORT SIDE WELL DECK WALL

		PORT SIDE SHELL						
		FRAME (274)					FRAME (268)	
		.412 △	.413 △	.413 △	.411 △	.414 △	.415 △	.413 △
WELD SEAM	-----	.480 △	.488 △	.489 △	.483 △	.486 △	.489 △	.485 △
6X4 T BEAM	→	W .231 F .221	W .232 F .327	W .232 F .348	W .233 F .403	W .257 F .400	W .254 F .395	W .250 F .391
SHELL DESIGN THICKNESS .438 MINIMUM .330		△ .486	△ .482	△ .491	△ .493	△ .493	△ .491	△ .490
		△ .489	△ .493	△ .495	△ .496	△ .491	△ .495	△ .491
		△ .487	△ .493	△ .497	△ .494	△ .496	△ .494	△ .491
		W .222 F .350	W .232 F .343	W .221 F .346	W .250 F .404	W .256 F .402	W .251 F .403	W .238 F .397
		△ .489	△ .493	△ .491	△ .495	△ .495	△ .494	△ .492
		△ .484	△ .487	△ .489	△ .495	△ .493	△ .494	△ .492
		△ .484	△ .483	△ .493	△ .493	△ .491	△ .492	△ .488

USS NASHVILLE (LPD-13)  
STERN GATE HYD OPERATOR EMER  
RIG-CONN SPACE (4-268-2-Q)  
PORT SIDE SHELL

J. LAROCK / C. SHORT  
QED SYSTEMS INC.  
7/25/02

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-268-1-Q	WORK CENTER ER02	JSN A384
EQUIPMENT STATUS		PROBLEM STATUS		CATEGORY	EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. S - SHIP'S FORCE *UNCORRECTED PROBLEMS		1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED	.6
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL <b>1</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY <b>4</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE <b>6</b>	
MAN HRS EXPENDED <b>4</b>	MAN HRS REMAINING <b>500</b>	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: (4-268-1-Q) STERN GATE EMERGENCY RIG CONN</b>					
SPACE. BASIN WALL IS THINNING ALONG THE DECK. 2 <sup>ND</sup> STRINGER FROM DECK IS HOLED AT FWD BHD.					
<b>RECOMMENDED REPAIRS: RECOMMEND REPAIR ACTIVITY CUT OUT AND REPLACE APPROXIMATELY 40SQF OF BASIN WALL, USING .375 OS. RECOMMEND REPLACING BOTH 6X4 T- BEAMS, APPROX 16LF. PRIME AND PAINT.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b> BASIN WALL IS THINNING/ HOLED STRINGER (4-268-1-Q)				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>		RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>		PHONE
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN TSP



**USS NASHVILLE (LPD-13)**  
**STERN GATE HYD OPERATOR EMERGENCY\_RIG-CONN SPACE (4-268-1-Q)**



HOLED 2<sup>ND</sup> STRINGER, ON INBOARD SIDE OF BASIN WALL AT BULKHEAD 268.



CORROSION ON THE TRANSOM



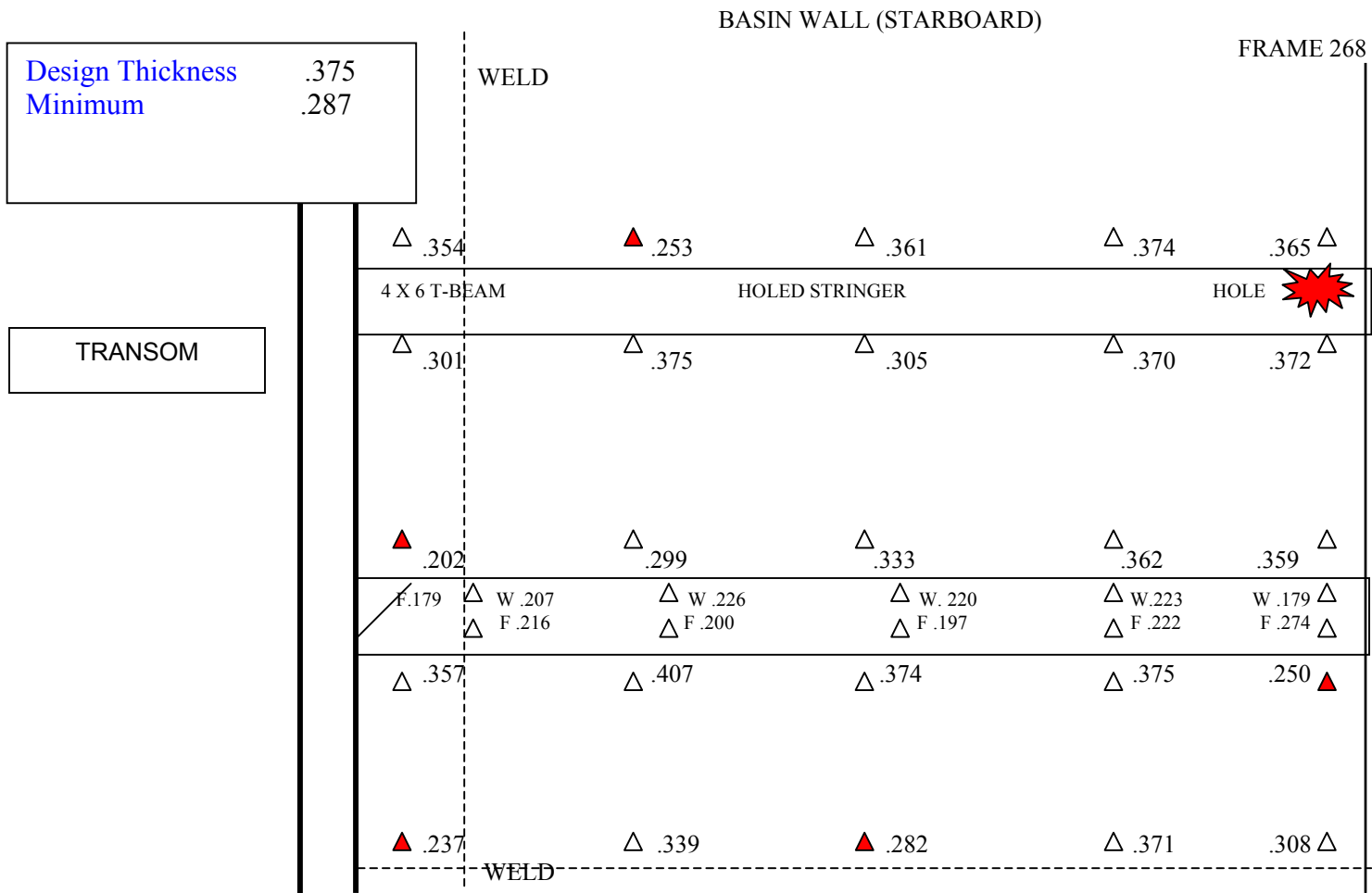
**USS NASHVILLE (LPD-13)**  
**STERN GATE HYD OPERATOR EMERGENCY\_RIG-CONN SPACE (4-268-1-Q)**



CORROSION ON THE SHELL.



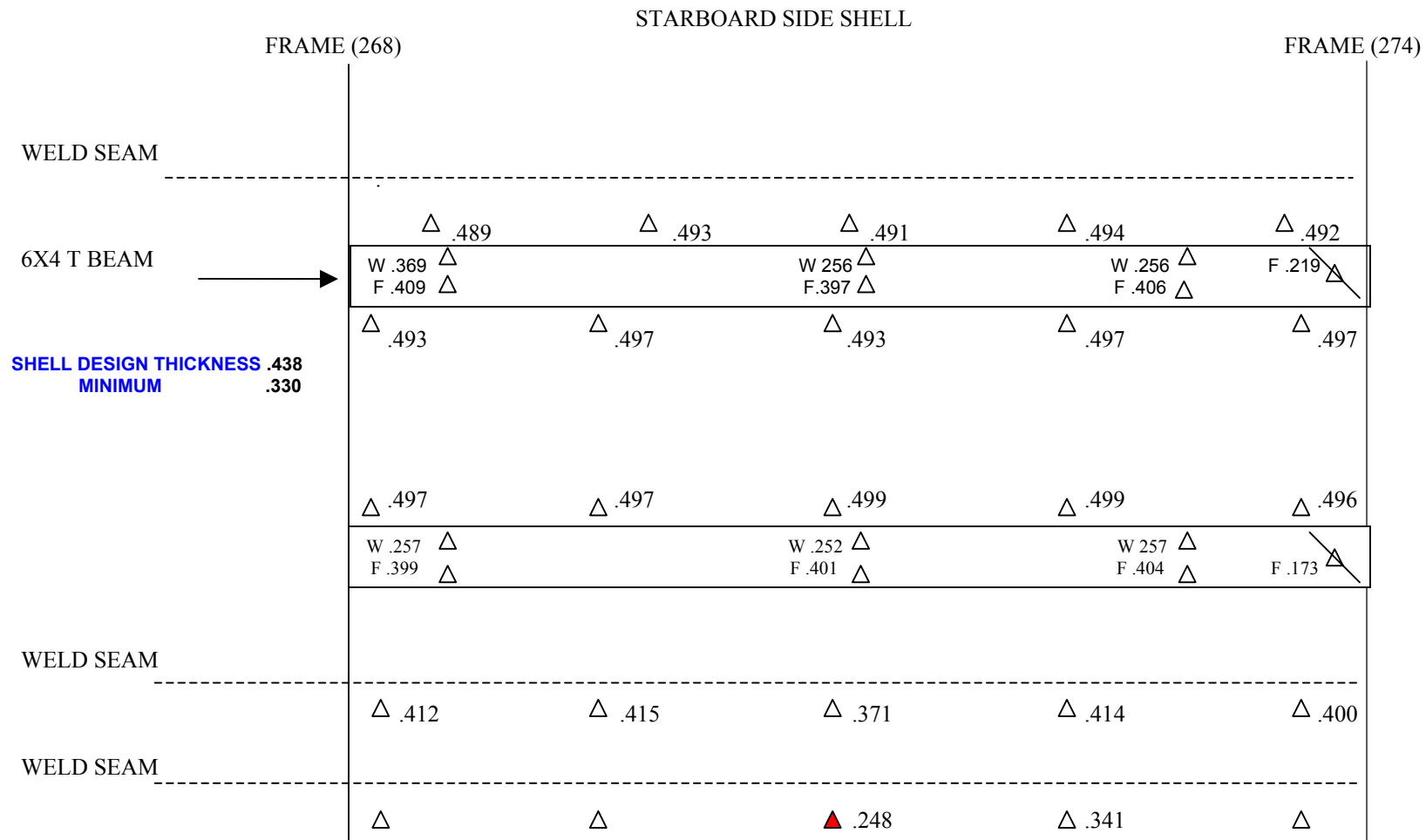
FORWARD BULKHEAD



USS NASHVILLE (LPD-13)  
STARBOARD WELL DECK WALL ( 4-268-1-Q)

F. LAROCK LVL 2 / C. SHORT LVL 1  
QED SYSTEMS INC. 7/31/02

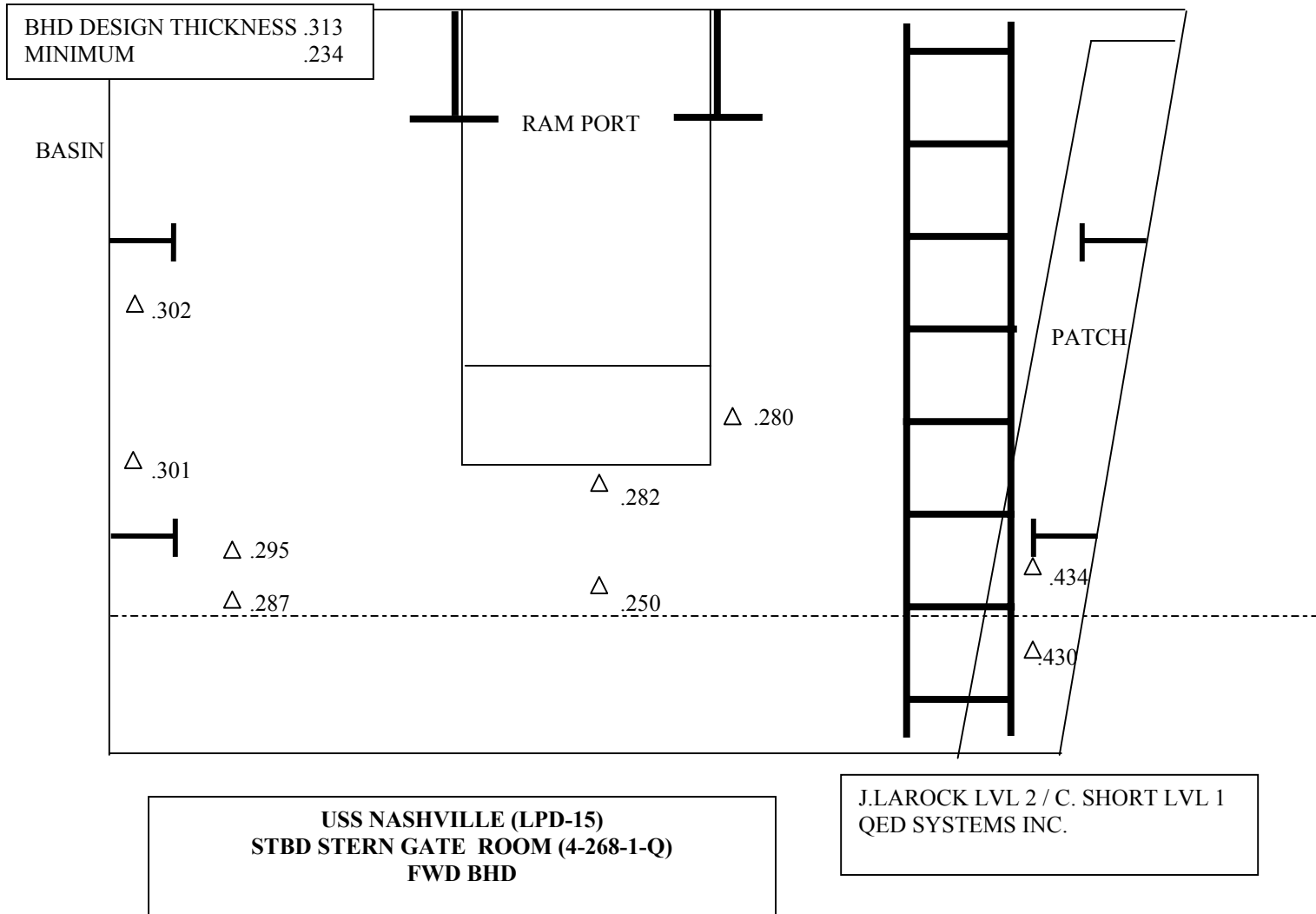




USS NASHVILLE (LPD-13)  
 STERN GATE HYD OPERATOR EMER  
 RIG-CONN SPACE (4-268-1-Q)  
 STARBOARD SIDE SHELL

J. LAROCK / C. SHORT  
 QED SYSTEMS INC.  
 7/25/02

3<sup>RD</sup> DECK



# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-268-1-Q	WORK CENTER ER02	JSN A381
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE	
MAN HRS EXPENDED 2	MAN HRS REMAINING 300	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
<b>SAFETY HAZARD:</b> 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE	
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT:(4-268-1-Q ) STERN GATE EMERGENCY RIG CONN</b>					
SPACE HAS HEAVY CORROSION ON FWD BLKD, SHELL AND TRANSOM. APPROX. 200 SF.					
<b>RECOMMENDED REPAIRS: SHIPS FORCE CLEAN AREA TO BARE METAL, PRIME AND PAINT. APPROX. 200 SF.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b>				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>	RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>	RATE <b>DC 1</b>	PHONE	
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN TSP

**USS NASHVILLE (LPD-13)**  
**STERN GATE HYD OPERATOR EMERGENCY\_RIG-CONN SPACE (4-268-1-Q)**



**CORROSION ON THE SHELL AND FORWARD BULKHEAD (268)**



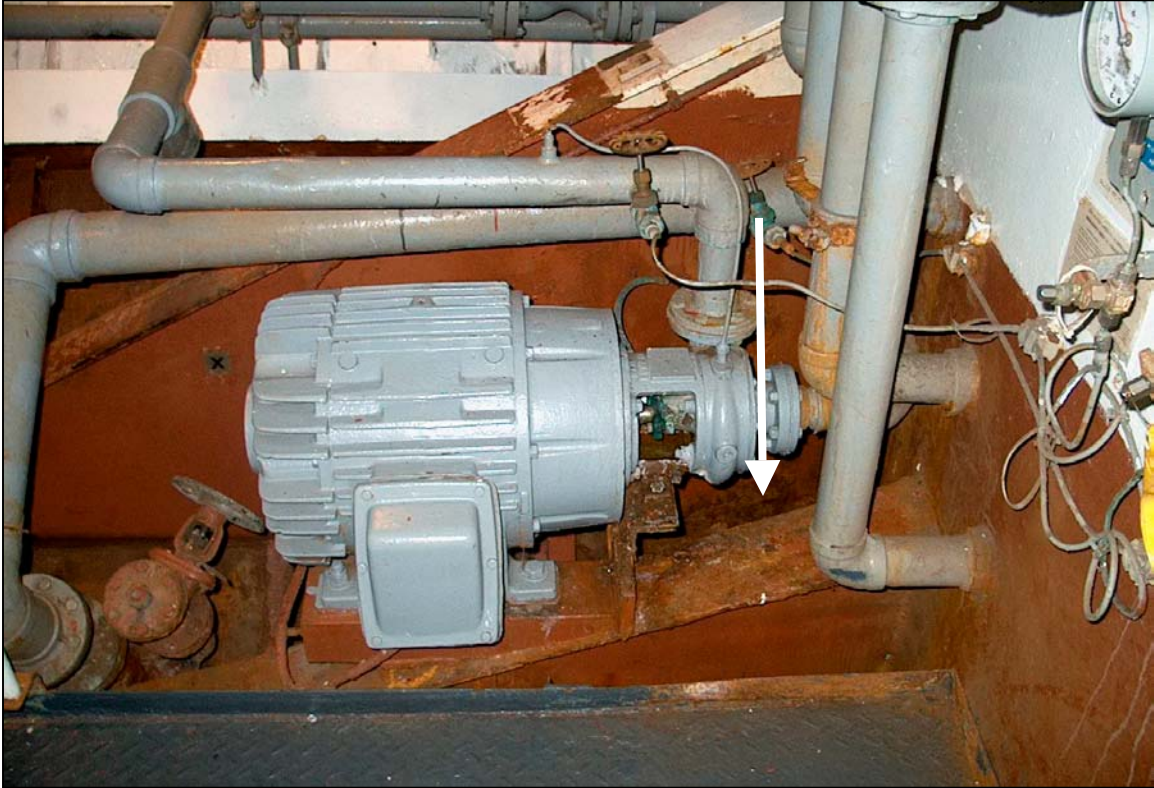
**INBOARD SIDE OF BASIN WALL**

# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 8-44-1-E	WORK CENTER ER02	JSN A383
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.7
TYPEAVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL <b>4</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY <b>4</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE <b>6</b>	
MAN HRS EXPENDED <b>2</b>	MAN HRS REMAINING <b>200</b>	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE <b>4</b>
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: FORWARD PUMP ROOM (8-44-1-E)</b>					
ENTIRE SPACE HAS MILD CORROSION AND PAINT SEPARATION, SHELL, BULKHEADS AND STRINGERS. APPROX. 500 SQF					
<b>RECOMMENDED REPAIRS: SHIPS FORCE POWER CLEAN ENTIRE SPACE TO BARE METAL, PRIME AND PAINT</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b>				<b>TEST#</b>	
ENTIRE SPACE NEEDS PRESERVATION (8-44-1-E)				MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b>				<b>STEP#</b>	
H1				1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
<b>FIRST CONTACT</b>		<b>RATE</b>	<b>SECOND CONTACT</b>		<b>PHONE</b>
<b>BUYNA</b>		<b>HT1</b>	<b>TEECE</b>		
ASSESSOR / ACT / TECH ID#			TD	TL	TSP
J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)				LOGISTICIAN	



**USS NASHVILLE (LPD- 13)  
FORWARD PUMP ROOM (8-44-1-E)**



PUMP AT BHD 52. ENTIRE SPACE HAS MILD CORROSION AND PAINT FAILURE.  
ARROW INDICATES CORROSION BELOW.



**USS NASHVILLE (LPD-13)  
FORWARD PUMP ROOM (8-44-1-E)**



**CORROSION AND PAINT  
SEPARATION IN THE ENTIRE SPACE**



**TRAPPED WATER IS THE MAIN CAUSE  
OF CORROSION.**



# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 8-216-1-E	WORK CENTER ER02	JSN A370
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL <b>4</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY <b>3</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE <b>1</b>	
MAN HRS EXPENDED 2	MAN HRS REMAINING 200	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAVIER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE <b>4</b>	
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: GAS SYS. SW PUMP ROOM (8-216-1-E) LOCATED</b>					
<b>IN STARBOARD SHAFT ALLEY (8-184-1-Q) BETWEEN FRAMES (216-226) APPROX 100 SQF OF MILD CORROSION / SURFACE RUST ON</b>					
<b>SHELL AND FRAMES</b>					
<b>RECOMMENDED REPAIRS: RECOMMEND SHIPS FORCE POWER CLEAN AREA TO BARE METAL, PRIME AND PAINT APPROX 50 SQF</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK (757) 396-4001</b>					
CSMP SUMMARY CORROSION ON SHELL (8-216-1-E)				TEST# MRC 1102/1	
ROOT CAUSE/AMPLIFICATION: H1				STEP# 1 THRU 5	
SYSTEM LEVEL IMPACT:					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT BUYNA	RATE HT1	SECOND CONTACT TEECE	RATE DC 1	PHONE	
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN TSP



**USS NASHVILLE (LPD-13)  
GAS SYSTEMS SALT WATER PUMP ROOM (8-216-1-E)**



**CORROSION ON THE SHELL AND STRINGERS  
BETWEEN FRAMES (216-220). JSN A370**



# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-160-3-E	WORK CENTER ER02	JSN A369
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.6
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL <b>1</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY <b>4</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE <b>6</b>	
MAN HRS EXPENDED <b>2</b>	MAN HRS REMAINING <b>400</b>	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
<b>SAFETY HAZARD:</b> 1. <b>SERIOUS - CORRECT AS SOON AS POSSIBLE</b> 2. <b>SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED</b> 3. <b>SERIOUS - WAVIER OF EQUIPMENT/SYSTEM</b> 4. <b>SAFETY ITEM - MINOR</b> 5. <b>COMBUSTIBLE MATERIAL</b>		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION			1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE <b>3</b>
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: AC MACHINERY ROOM NO. 1 (4-160-3-E), THE</b>					
<b>DECK/TANK TOP ALONG THE FWD STBD SIDE IS THINNING UNDER THE REFRIGERANT BOTTLE RACK. APPROX. 4 SF.</b>					
<b>BOTTLE RACK IS DAMAGED, PREVENTING BOTTLE REMOVAL AND DECK PRESERVATION. REFER TO DRAWING FOR</b>					
<b>UT READINGS. TANK TOP IS (8-160-5-F)</b>					
<b>RECOMMENDED REPAIRS: REPAIR ACTIVITY CLEAN AND GAS FREE TANK (8-160-5-F). CUT OUT APPROX. 4 SF OF DECK/TANK TOP</b>					
<b>ALONG STBD SHELL, FROM FRAME 168 TO 164. REPLACE WITH .375 OS. PERFORM NDT ON TANK TOP. REPAIR</b>					
<b>BOTTLE RACK. PRIME AND PAINT.</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b> THINNING DECK/TANK TOP, DAMAGED BOTTLE RACK (4-160-3-E)				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>	RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>	RATE <b>DC 1</b>	PHONE	
ASSESSOR / ACT / TECH ID# J.LAROCK /C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN TSP

**USS NASHVILLE (LPD-13)  
AC MACHINERY ROOM NO. 1 (4-160-3-E)**

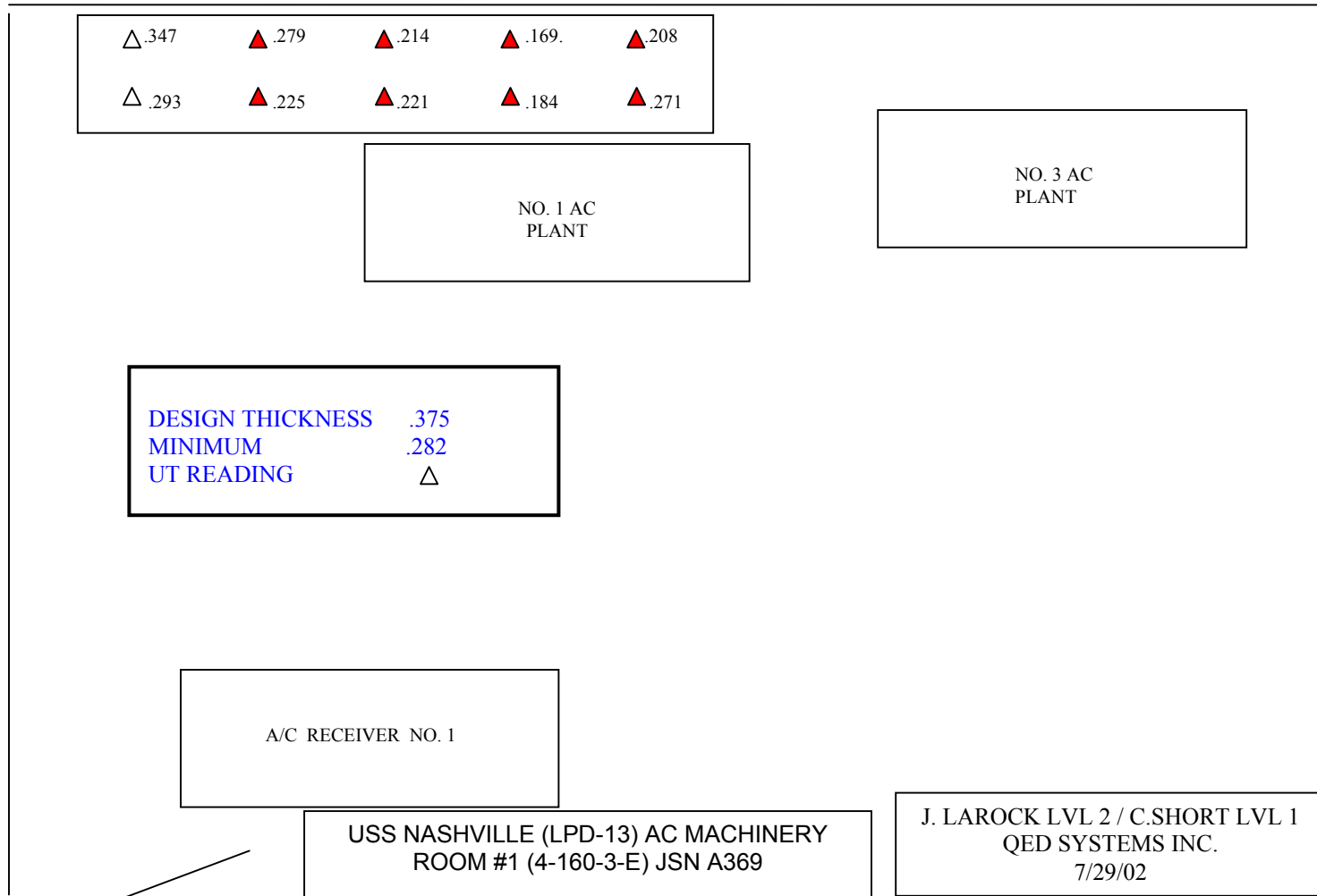


ARROW INDICATES THINNING TANK TOP/DECK. REFER TO DRAWING FOR UT READINGS.  
JSN A369

FR 160

STARBOARD SHELL FR 168

FR 172



# MATERIAL ASSESSMENT FORM

ITEM NUMBER		SHIP <b>USS NASHVILLE (LPD-13)</b>			
SYSTEM <b>SHELL&amp;SUPPORTINGSTRUCTURE 110</b>		ESWBS 11011	EIC	APL	RIN N/L
EQUIPMENT NAME <b>HULL STRUCTURE 1102XY</b>		IDENT/SERIAL N/A	LOCATION 4-52-1-E	WORK CENTER ER02	JSN A 366
EQUIPMENT STATUS		PROBLEM STATUS	CATEGORY		EOC
1. SAT - SATISFACTORY 2. <b>UNSAT - UNSATISFACTORY</b> 3. TNA - TEST NOT ATTEMPTED 4. TNC - TEST NOT COMPLETED 5. NOB - EQUIPMENT NOT ONBOARD		1. C - CORRECTED 2. A - AWAITING PARTS 3. T - AWAITING TECH ASSIST* 4. <b>S - SHIP'S FORCE</b> *UNCORRECTED PROBLEMS	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. <b>H - HARDWARE</b> 4. D - DOWN 5. L - LIMITED		.8
TYPE/AVAILABILITY	WHEN TO BE ACCOMPLISHED	STATUS	CAUSE	DEFERRAL REASON	
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL <b>4</b>	1. IMMEDIATELY 2. PRIOR TO NEXT UNDERWAY 3. PIOR TO NEXT DEPLOYMENT 4. DURING POST DEPLOYMENT AVAILABILITY <b>3</b>	1. OPERATIONAL 2. NON-OPERATIONAL 3. REDUCED CAPABILITY 4. NOT APPLICABLE <b>1</b>	1. ABNORMAL ENVIRONMENT 2. MANUFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE <b>7</b>	1. <b>S/F BACKLOG/OPERATIONAL PRIORITY</b> 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE <b>8</b>	
MAN HRS EXPENDED <b>2</b>	MAN HRS REMAINING <b>100</b>	COMPLETED ACTION TAKEN		S/F MANHOURS	PRIORITY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS SOON AS POSSIBLE 2. SERIOUS - SUSPENSION OF EQUIPMENT/SYSTEM/SPACE REQUIRED 3. SERIOUS - WAIVER OF EQUIPMENT/SYSTEM 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIAL		1. MAINTENANCE ACTION COMPLETED: PARTS DRAWN FROM SUPPLY 2. MAINTENANCE ACTION COMPLETED: REQUIRED PARTS NOT DRAWN FROM SUPPLY 3. MAINTENANCE ACTION COMPLETED: NO PARTS REQUIRED 4. CANCELLED - DEFERRAL WILL BE REMOVED FROM CSMP 5. MAINTENANCE ACTION COMPLETED: 3-M CAPABILITY UTILIZED 6. NONE OF THE ABOVE, DESCRIBE IN REMARKS/DESCRIPTION SECTION		1. MANDATORY 2. ESSENTIAL 3. HIGHLY DESIRABLE 4. DESIRABLE <b>4</b>	
<b>DISCREPANCY DESCRIPTION: PER SEMAT II UNDERWATER HULL ASSESSMENT: EMERGENCY GENERATOR ROOM 1 (4-52-2-A)</b>					
APPROX 50 SQF OF MILD CORROSION AND PAINT SEPARATION ON DECK, SHELL AND BLKHD (68) AFT OF ELECTRICAL PANELS.					
<b>RECOMMENDED REPAIRS: RECOMMEND SHIPS FORCE POWER CLEAN AREA TO BARE METAL, PRIME AND PAINT. APPROX 50 SQF</b>					
<b>SSPORT C221 POC: B. WILLIAMS (757) 396-4001 TPOC: C.BUCK</b>					
<b>CSMP SUMMARY</b> CORROSION ON DECK, SHELL AND BHD (68)				<b>TEST#</b> MRC 1102/1	
<b>ROOT CAUSE/AMPLIFICATION:</b> H1				<b>STEP#</b> 1 THRU 5	
<b>SYSTEM LEVEL IMPACT:</b>					
PART NO.	NOMENCLATURE		QTY	NSN	COST
1					
2					
3					
4					
5					
6					
FIRST CONTACT <b>BUYNA</b>		RATE <b>HT1</b>	SECOND CONTACT <b>TEECE</b>		PHONE
ASSESSOR / ACT / TECH ID# J.LAROCK / C.SHORT QED SYSTEMS INC. (757-490-5047)			TD	TL	LOGISTICIAN TSP



**USS NASHVILLE (LPD-13)  
EMERGENCY GENERATOR ROOM 1 (4-52-1-E)**



CORROSION ON SHELL, DECK AND BULKHEAD (68) AFT OF ELECTRICAL PANELS.  
JSN A366.

### LPD-4 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE #	DESIGNATION	SPACE ASSESSABLE	LAGGING ON BHD/SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
4-52-2-A	SD STOREROOM	Y	Y	Y		
4-52-1-E	EMERGENCY GENERATOR NO. 1	Y	Y	Y		
4-200-1-E	AFT DEBALLASTING	Y	Y	Y		
4-268-1-Q	STERN GATE HYDRAULIC EMERGENCY RIG CONN SPACE	Y	N	Y	Y	
4-268-2-Q	STERN GATE HYDRAULIC EMERGENCY RIG CONN SPACE	Y	N	Y	Y	

### LPD-4 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE #	DESIGNATION	SPACE ASSESSABLE	LAGGING ON BHD/SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
5-22-0-K	FLAMMABLE LIQUID STOREROOM	Y	Y	Y		
5-24-2-L	P-WAY	Y	Y	Y		
5-26-2-A	DC STOREROOM	Y	Y	Y		
5-36-0-A	SHIPS STORES STOREROOM	Y	Y	Y		
5-44-0-A	SD STOREROOM	N	N	Y		
5-252-0-L	P-WAY, PORT & STBD TRUNKS	Y	N	Y		
5-254-0-E	STEERING GEAR ROOM	Y	N	Y		



### LPD-4 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE #	DESIGNATION	SPACE ASSESSABLE	LAGGING ON BHD/SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
6-36-0-M	MAGAZINE	Y	N	Y		
6-44-2-M	SMALL ARMS MAGAZINE	Y	N	Y		

### LPD-4 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE #	DESIGNATION	SPACE ASSESSABLE	LAGGING ON BHD/SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
7-44-2-A	SD STOREROOM	Y	Y	Y		
7-52-2-A	MEDICAL STOREROOM	Y	Y	Y		
7-58-1-A	DRY PROVISIONS STOREROOM	Y	Y	Y		
7-60-2-E	REEFER MACHINERY ROOM	Y	N	Y		

### LPD-4 CLASS STRUCTURAL ASSESSMENT MATRIX

SPACE #	DESIGNATION	SPACE ASSESSABLE	LAGGING ON BHD/SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
8-44-1-E	FIRE PUMP ROOM	Y	N	Y		
8-84-2-Q		N		N		
8-120-1-Q	UNDER WATER LOG TRUNK					
8-184-1-Q	SHAFT ALLEY	Y	N	Y		
8-184-2-Q	SHAFT ALLEY	Y	N	Y		
8-200-1-J	JP5 PUMP ROOM	Y	N	Y		
8-216-1-Q	GAS SYSTEMS SW PUMP ROOM	N	N	Y		
8-216-2-Q	#2 EDG SEA WATER BOOSTER PUMP ROOM	Y	N	Y		